

# BlowLTD's BDT Payment API

## BlowLTD's Backend Developer Test API

This API is the answer to BlowLTD's Backend Developer Test. It represents part of a payments system API.

### Requirements

- API should be RESTFUL
- API should be able to
  - Fetch a payment resource
  - Create, update and delete a payment resource
  - List a collection of payment resources
  - Persist resource state (e.g. to a database)

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### Access

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### Default

#### GET /payments

[Up](#)

Returns a list of payments. (`paymentsGet`)

Returns a list of the payments in the database.

#### Query parameters

##### limit (optional)

*Query Parameter* – The maximum number of payments to return in the response

##### offset (optional)

*Query Parameter* – The number of payments to skip before returning the response

#### Return type

array[[Payment](#)]

#### Example data

Content-Type: application/json

```
[ {
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}, {
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
} ]
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

### Responses

**200**

A JSON array of payments.

**500**

A server error occurred while processing request.

## DELETE /payments/{id}

Up

Delete a payment. (**paymentsIdDelete**)

Deletes a payment matching the provided ID, from the database, if it exists.

### Path parameters

**id (required)**

*Path Parameter* — The payment ID

### Responses

**204**

Payment was deleted.

**404**

No payment matching the provided ID exists in the database.

**500**

A server error occurred while processing request.

## GET /payments/{id}

Up

Returns a payment. (**paymentsIdGet**)

Returns a single payment from the database, if it exists and matches the provided ID.

### Path parameters

**id (required)**

*Path Parameter* — The payment ID

## Return type

[Payment](#)

## Example data

Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

**200**

A JSON detail of the payment. [Payment](#)

**404**

No payment matching the provided ID exists in the database.

**500**

A server error occurred while processing request.

## PATCH /payments/{id}

[Up](#)

Update a payment. (**paymentsIdPatch**)

Updates a payment matching the provided ID, in the database, if it exists.

## Path parameters

**id (required)**

*Path Parameter* – The payment ID

## Return type

[Payment](#)

## Example data

Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

## Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

200

A JSON detail of the payment. [Payment](#)

400

Payment update failed. Client input is not valid. [Error](#)

404

No payment matching the provided ID exists in the database.

500

A server error occurred while processing request.

---

## POST /payments

Up

Creates a payment. (**paymentsPost**)

Creates a payment with the parameters sent in the request's body. Returns the payment details if successful.

### Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

### Request body

body [Payment](#) (required)

*Body Parameter* – The JSON detail of the payment

### Return type

[Payment](#)

### Example data

Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

### Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

## Responses

201

A JSON detail of the payment. The creation was successful. [Payment](#)

400

Payment creation failed. Client input is not valid. [Error](#)

500

A server error occurred while processing request.

---

## Models

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## **Currency**

[Up](#)

Currency enumerator. Contains allowed values for currency type.

## **Error**

[Up](#)

Error object. Used in error responses that require extra details.

message (optional)

[String](#)

type (optional)

[String](#)

code (optional)

[String](#)

## **Id**

[Up](#)

Id string. Contains the pattern for allowed IDs (UUID v4).

## **Payment**

[Up](#)

Payment object. Main API resource.

id (optional)

[Id](#)

version (optional)

[BigDecimal](#)

organisation\_id (optional)

[Id](#)

attributes (optional)

[PaymentAttributes](#)

## **PaymentAttributes**

[Up](#)

Payment Attributes object. Contains most of the information related to a payment.

amount (optional)

[BigDecimal](#) Amount paid

currency (optional)

[Currency](#)

beneficiary\_party\_id (optional)

[Id](#)

debtor\_party\_id (optional)

[Id](#)

sponsor\_party\_id (optional)

[Id](#)

payment\_scheme\_type (optional)

[PaymentSchemeType](#)

payment\_type (optional)

[PaymentType](#)

scheme\_payment\_type (optional)

[SchemePaymentType](#)

scheme\_payment\_sub\_type (optional)

[SchemePaymentSubType](#)

reference (optional)

[String](#)

payment\_purpose (optional)

[String](#)

end\_to\_end\_reference (optional)

[String](#)

processing\_timestamp (optional)

[BigDecimal](#) Timestamp for the payment's processing operation. Replaces the processing\_date string.

numeric\_reference (optional)

[String](#)

payment\_id (optional)

[String](#)

## **PaymentSchemeType**

[Up](#)

Payment Scheme Type enumerator.

## **PaymentType**

[Up](#)

Payment Type enumerator.

## **SchemePaymentSubType**

[Up](#)

Scheme Payment Sub-Type enumerator.

## **SchemePaymentType**

[Up](#)

Scheme Payment Type enumerator.